

## Exercise 3 : Stored Procedures

**Scenario 1:** The bank needs to process monthly interest for all savings accounts.

**Question:** Write a stored procedure ProcessMonthlyInterest that calculates and updates the balance of all savings accounts by applying an interest rate of 1% to the current balance.

Query & Output:

```
SQL> CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS
  2 BEGIN
  3     UPDATE accounts
  4     SET Balance = Balance + (Balance * 0.01)
  5     WHERE AccountType = 'Savings';
  6
  7     COMMIT;
  8 END;
  9 /
```

Procedure created.

```
SQL> begin
  2 ProcessMonthlyInterest;
  3 end;
  4 /
```

PL/SQL procedure successfully completed.

```
SQL> SELECT AccountID, AccountType, Balance
  2 FROM accounts
  3 WHERE AccountType = 'Savings';
```

ACCOUNTID	ACCOUNTTYPE	BALANCE
1001	Savings	5050
1002	Savings	8080
1004	Savings	12120